



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

09/845,601

04/27/2001

Byung Hoon Ahn

AB-1134 US

2578

24251

7590

12/15/2004

SKJERVEN MORRILL LLP
25 METRO DRIVE
SUITE 700
SAN JOSE, CA 95110

EXAMINER

CLARK, SHEILA V

ART UNIT

PAPER NUMBER

2815

DATE MAILED: 12/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

RECEIVED
JAN - 4 2005
TECHNOLOGY CENTER 2800

Office Action Summary

Application No.

09/845,601

Applicant(s)

AHN ET AL.

Examiner

S. V. Clark

Art Unit

2815

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 16-20 is/are allowed.
- 6) ☒ Claim(s) 1,2 and 7-13 is/are rejected.
- 7) ☒ Claim(s) 3-6, 14 and 15 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

Art Unit: 2815

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.


Claims 1, 2, 7-13 are rejected under 35 U.S.C. 102(a) as being anticipated by Yee et al.

Yee et al shows in for example figures 5D and 5E, a frame 18, a chip 2 inside said frame, a plurality of leads 11. figure 5E shows the second lower surface of the lead split by a middle grooved section 14 which formed a horizontal third surface and where a first outer region 13 is between the frame and the groove and a second inner region (another 14) is shown between the third surface and the inner end of the lead. A recessed forth surface is shown at the tip of the inner lead.

Claims 1, 2, 7-13 are rejected. Claims 3-6, 14, 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claims 16-20 are allowed.

Hu et al (2003/0073265, 6, 611, 047), Su et al, Chuang, Huang (6, 545, 332 and 6, 198, 171), Kobayakawa, Shibata, Glenn et al are cited to show leads with grooved portions.

Any inquiry concerning this communication should be directed to S. V. Clark at telephone number (571) 272-1725.


S. V. Clark
Primary Examiner
Art Unit 2815

December 11, 2004

Notice of References Cited	Application/Control No. 09/845,601	Applicant(s)/Patent Under Reexamination AHN ET AL.	
	Examiner S. V. Clark	Art Unit 2815	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,281,568	08-2001	Glenn et al.	257/684
	B	US-6,700,189	03-2004	Shibata, Kazutaka	257/684
	C	US-6,580,161	06-2003	Kobayakawa, Masahiko	257/676
	D	US-6,448,633	09-2002	Yee et al.	257/666
	E	US-6,198,171	03-2001	Huang et al.	257/787
	F	US-6,545,332	04-2003	Huang, Chien-Ping	257/433
	G	US-6,611,047	08-2003	Hu et al.	257/666
	H	US-2003/0073265	04-2003	Hu et al.	438/123
	I	US-6,483,178	11-2002	Chuang, Jui-Yu	257/672
	J	US-6,437,429	08-2002	Su et al.	257/666
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

RECEIVED

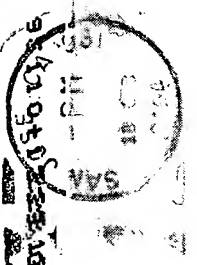
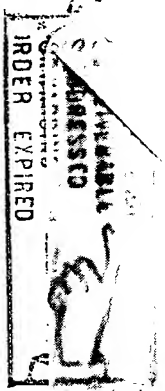
JAN - 4 2005

JOH
TECHNOLOGY CENTER 2800
AN EQUAL OPPORTUNITY EMPLOYER



UNITED STATES POSTAGE
U.S. OFFICIAL MAIL
PENALTY FOR
PRIVATE USE \$300
02 1A
0004204034 DEC 15 2004
MAILED FROM ZIP CODE 22314
PRIME BOWLS

Organization 7000000 Bldg./Room
UNITED STATES PATENT AND TRADEMARK OFFICE
P.O. Box 1450
Alexandria, VA, 22313-1450
If Undeliverable Return In Ten Days
Official Business
Penalty For Private Use, \$300



JAN 4 2005

